

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004254

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> H04B1/707

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H04J13/00-13/06, H04B1/69-1/713Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004  
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 11-243381 A (Kabushiki Kaisha YRP Ido Tsushin Kiban Gijutsu Kenkyusho), 07 September, 1999 (07.09.99), Figs. 2, 4, 5, 11 (Family: none)	1-3, 10-12, 19-21, 28-30, 37, 38
Y		4-6, 13-15, 22-24, 31-33
A		7-9, 16-18, 25-27, 34-36
Y	Fumiyo SATO, Michihide KAMIO, "Iso Shift Tajuka Multi Carrier CDMA System", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 19 November, 2001 (19.11.01), RCS2001-176	4, 13, 22, 31

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier application or patent but published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search 09 June, 2004 (09.06.04)	Date of mailing of the international search report 22 June, 2004 (22.06.04)
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 11-177528 A (Sharp Corp.), 02 July, 1999 (02.07.99), Figs. 5, 9 (Family: none)	5, 6, 14, 15, 23, 24, 32, 33
P, A	JP 2003-110503 A (Communications Research Laboratory), 11 April, 2003 (11.04.03), Claims 1, 5, 10 (Family: none)	1-38
A	JP 2001-60937 A (Communications Research Laboratory), 06 March, 2001 (06.03.01), Claim 1 & JP 3234202 B2 & US 6661831 B1	1-38
A	Ken UMENO, Kenuzu Gusutafusion, Ken'ichi KITAYAMA, "Sotai Chaos Shazo o Mochiita Hikari Fugo Bunkatsu Taju Tsushin System", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 23 July, 1998 (23.07.98), OCS98-28	1-38
A	Kazuhiko NAKAMURA, Teruyuki MIYAJIMA, Kazuo YAMANAKA, "Chaos Kakusan Keiretsu ni yoru Hidoki CDMA Hoshiki no Ayamariritsu", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 19 March, 1997 (19.03.97), SST96-110	1-38
A	Avi Barda, Shaul Laufer, CHAOTIC SIGNALS FOR MULTIPLE ACCESS COMMUNICATIONS, Electrical and Electronics Engineers in Israel 1995 Eighteenth Convention, 08 March, 1995 (08.03.95)	1-38